

1945-1970



Our Silver Year

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TOWNER BRO'S. CO.
710 University Ave.
ROCHESTER, N.Y.



GRUMMAN

Canoes

Boats

Sailboats

GRUMMAN BOATS, Grumman Allied Industries, Inc.
General Sales Office, Marathon, New York 13803

25th Annual Showcase of

Thank you for your interest and sharing our 25th birthday with us.

Grumman pioneered with the first aluminum canoe 25 years ago. Today it's the largest selling brand in the world. Just about 200,000 Grummans grace the waters of America and the world—providing safe, easy, economical, trouble-free family fun on the water.

This booklet will give you basic information and details about each model in our complete line of aluminum watercraft. To help you decide which Grumman is best for you, read all the information in this brochure. Then talk it over with your friendly Grumman Dealer. He is an expert—and will be glad to help you choose the right Grumman.

GRUMMAN CONSTRUCTION Grumman's quarter century experience in building aluminum canoes is apparent in the sleek designs and precision construction of their entire line. Grumman matches identical die-formed, *heat-treated* hull halves... rivets them close-spaced to an extruded keel... adds extra rigidity by bracing with

Grumman Canoes are built of marine aluminum—lighter and stronger than wood, canvas, composition or fiberglass. They are uniform in strength—cooler in contact with water. They cannot absorb water—cannot increase in weight. Graceful canoe proportions make them easier to paddle, faster under sail. Not affected by temperature extremes—won't rot out, dry out or warp.

Square-stern models are designed for the sportsman and family who demand the most in an all-purpose canoe. Equipped with spray rails and an outboard pad on the stern, these square-sterns are comfortable and efficient with an outboard motor—paddle easily even with a full load.

What does "Heat-Treated Marine Aluminum Alloy" mean to you? It means safety! It means long life!

All Grumman Canoes are heat-treated in an electric furnace to the ultimate strength of a T-6 temper.

As a result, your Grumman Canoe will withstand bumps and pressures up to 35,000 pounds per square inch before denting. It will withstand impacts up to 42,000 pounds per square inch before puncturing. That's a tremendous resistance to impact! Compare this with T-4 tempering which will puncture at 30,000 pounds per square inch.

In other words, *impacts that could puncture other aluminum canoes wouldn't even dent your Grumman.*

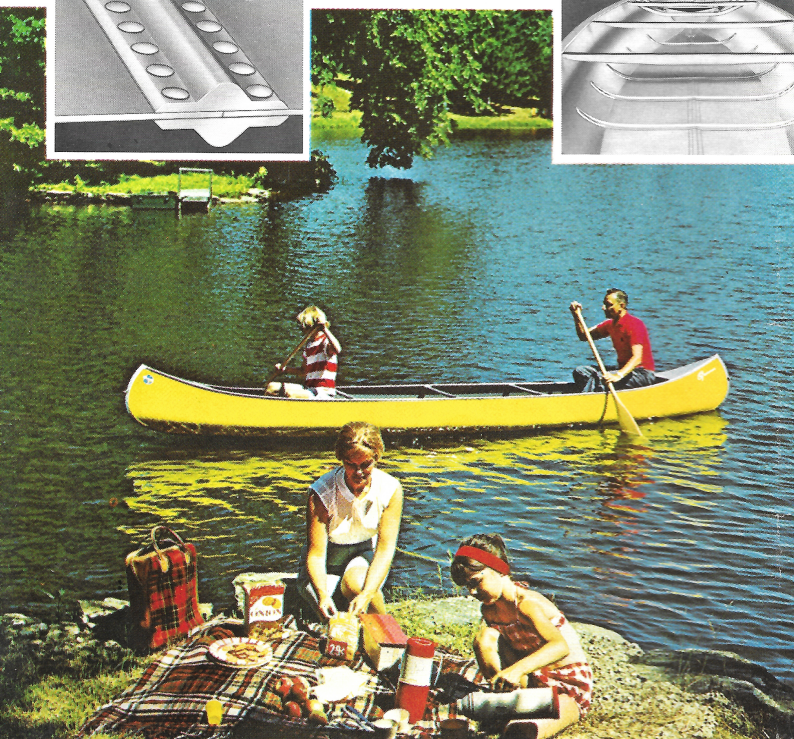
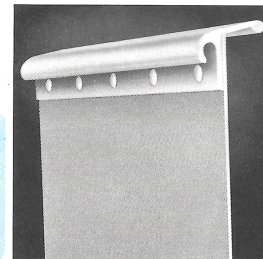
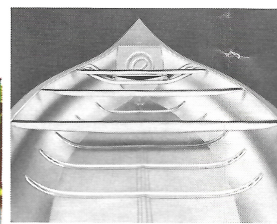
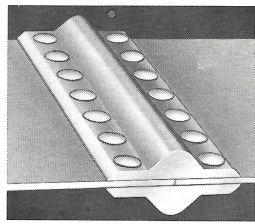
That's good to know when you take your family canoeing. Take them in a Grumman!

die-formed aluminum ribs, thwarts, and extruded gunwales. Note the number of ribs in each canoe model in the charts on Page 4. Flush stem and rib rivets reduce hull drag and eliminate abrasive action. All parts, hull included, heat-treated and hardened to T-6 temper after forming.

SHOE KEEL This heavy extruded, heat-treated keel was designed for use in white water and for maximum maneuverability under all conditions. The comparatively flat ($\frac{3}{8}$ ") keel is reinforced by using the same keel stock for an inner keelson. Additional ribs are added for maximum rigidity. Available in 15', 17', and 18' standard weight canoes.

EXTRA RIBS IN WHITE WATER MODELS add strength and durability. Check the chart on Page 4. Two extra ribs in the 15' model, four extra ribs in the 17' model and four extra ribs in the 18' model. Add this extra construction to the full strength of a standard weight model with the heavy, extruded "flat" keel and you'll know why white water canoeists choose Grumman first.

CANOE GUNWALE Solid extrusion specially designed to accept the complete line of Grumman engineered accessories, e.g. motor bracket, rowing attachment, pontoons, gunwale covers, sail rig. Gunwales are factory-drilled to accept mast thwart.



Grumman Aluminum Canoes

THE THRILLS OF WHITE WATER

Nearly everyone has gasped with excitement as expert canoeists navigate roaring white water. "Shooting the rapids" they call it! This takes cool nerves and strong arms...experience and a specially built canoe.

Grumman builds "White Water" Canoes. They are equipped with shoe keels. Cross sections are pictured at the bottom of these pages. Besides having the "flat keel," Grumman White Water Canoes have extra ribs, as shown in the charts on Page 4. By technical measurements, shoe keel models are 23.3% stronger than standard models. This extra strength in Grumman white water models is just another reason why Grumman is the Number One Canoe for white water thrills.



COLOR Grumman Canoes are available in red, blue, green or yellow, with aluminum trim and gray inside. Camouflage "Deadgrass" inside and out also available. Ask your Dealer. He also has touch-up spray cans. See all the Grumman Canoe Accessories on the last pages of this brochure.

SALT WATER CANOEING

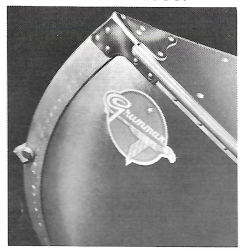
You bet! You can paddle, row, sail or out-board your Grumman in salt water just as freely as you do in fresh water. When the day's fun is over, haul your Grumman out of the water, hose it off and hose it out with fresh water. Takes only a couple of minutes and it's all the care your Grumman needs.

FLOTATION Aluminum-enclosed, foam-filled chambers meet recommended standards. Swamped or overturned, a Grumman will still float and support "in water" weight of recommended number of occupants. Know the safety procedures! Read the Red Cross book "Basic Canoeing" —available from your Grumman Dealer.

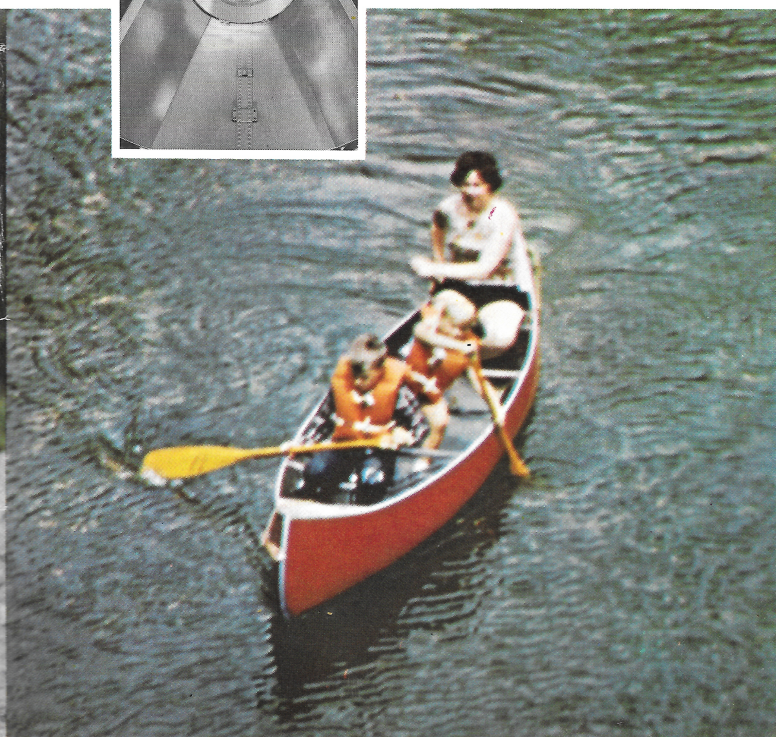
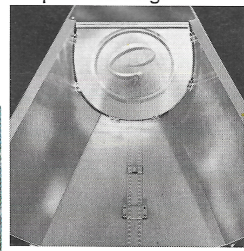


STABILITY Scientifically designed and precision formed tumble home, fuller ends and wider bottoms make Grumman Canoes stable and dependable. That's why thousands of families rely on Grumman. It's the stable, steady canoe!

BOW CONSTRUCTION Stem cap is stretch-formed and heat-treated to take impact. Close, flush riveting and neoprene seal assure lasting watertight joints. Tow shackle pin hole is sealed —also serves to accept rudder adapter in stern cap. Bow and stern caps are riveted to deck, gunwales and stem. All exclusive Grumman features.



BOW SECTION Rolled-edge decks provide attractive, comfortable lifting handles. Aluminum-enclosed foam-filled chambers. Bulkheads are bolt-fastened to hull—allowing ventilation into flotation compartments. Inner keelson provides positive seal and carries fixtures for attaching floorboards and mast step for sail rig.



15 Double-end models to choose from—13' to 20'

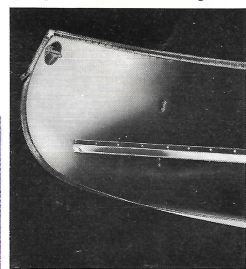
Standard canoes are constructed from .050" marine aluminum alloy. Lightweight models are constructed from .032" marine aluminum alloy. Both standards and lightweights are heat-treated to T-6 temper.

LENGTH OF DOUBLE-END CANOE	13'		15'		17'		18'		20'
MODEL	LIGHT WT.	STAN. WT.	LIGHT WT.	STAN. WT.	LIGHT WT.	STAN. WT.	LIGHT WT.	STAN. WT.	STAN. ONLY
WEIGHT (Pounds)	44	58	55	69	60	75	67	85	115
LENGTH (Inches)	157½		180½		203¾		216¾		240
BEAM (Inches)	35¾		35½		36½		36¾		40½
CENTER DEPTH (Inches)	12¾		12½		13½		13½		14
NO. OF RIBS	3	1	5	3	7	3	9	5	12
BIA OBC Certified Horsepower	3.5		5		5		5		7.5
BIA OBC CAPACITY — Persons at 150 lbs. per person	3		3		4		4		6
or lbs. for persons, motor and gear	590		720		805		850		1210
GRUMMAN SAIL RIGS (See Next Page) ..	45 sq. ft. Lateen Rig					65 sq. ft. Gunter Rig			
SHOE KEEL (White Water Keel)				Yes		Yes		Yes	
RIBS (White Water Models)				5		7		9	
WEIGHT (Pounds — White Water Models)				74		81		91	

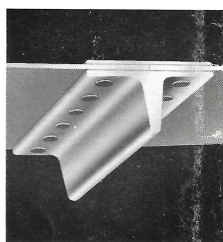
3 different
square-sterns
answer every need

LENGTH OF SQUARE-STERN	15'	17'	19'
MODEL	STAN. ONLY	STAN. ONLY	STAN. ONLY
WEIGHT (Pounds)	77	85	116
LENGTH (Inches)	180	203½	228½
BEAM (Inches)	36	36¾	40½
CENTER DEPTH (Inches)	13½	13½	14
NO. OF RIBS	6	8	12
BIA OBC Certified Horsepower	5	5	7.5
BIA OBC CAPACITY—Persons at 150 lbs. per person	4	4	5
or lbs. for persons, motor and gear	715	860	1135
GRUMMAN SAIL RIGS	See next page		

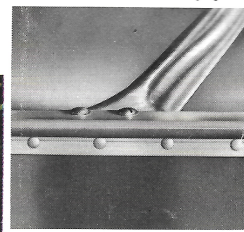
SPRAY RAIL All Grumman square-stern canoe models and the Sportcanoe™ are equipped with scientifically designed spray rails for driest operation with outboards or sailing. All Grumman spray rails are full-length!



CANOE KEEL Heavy extrusion, heat-treated, full-length keel and keelson sandwich type construction. Neoprene seal with close-spaced rivets on ½" centers. Built-in clips for mast step and floorboards. Easy installation of accessories and positive watertight seal.



THWART-TO-GUNWALE CONSTRUCTION The heavy-duty heat-treated Grumman Canoe thwarts are bolt-fastened to the extruded aluminum gunwale to absorb stress and shock. Close precision riveting of gunwale and location of thwarts are more reasons for Grumman's lifetime maintenance-free canoe enjoyment.



SAIL YOUR CANOE—every Grumman Canoe is factory-built with mast step clip...gunwales drilled to convert for sailing in minutes!



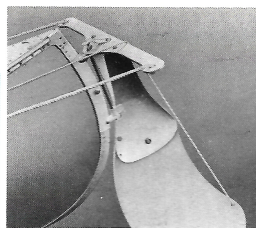
Relax with the breeze... thrill with the wind! All Grumman Aluminum Canoes and Sportcanoe™ are prepared for sailing accessories during production. Sail rig installation is easily completed...no holes to drill, no changes necessary. Simply attach engineered parts using only screwdriver and pliers. The sailing rig contains every part required—sail, aluminum spars, mast, leeboards and spreader bar, tilt-type rudder and adapter, mast step and thwart—all necessary rigging lines.

Choice of Rigs... Complete 65 sq. ft. Gunter rig with blue and white Dacron™ sail suggested for larger canoes.

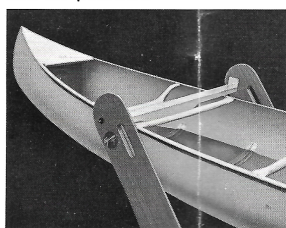
Complete 45 sq. ft. Lateen rig with blue and white nylon sail suggested for smaller models.

When ordering be sure to state length and serial number of canoe as certain parts vary with models.

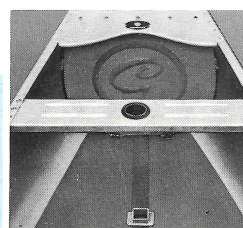
RUDDER Tilt-type rudder makes sailing in shoal waters and beaching easier. Made of strong, marine aluminum alloy plate. It can be attached or removed instantly with a single pin. Adapter can be left on canoe when rig is removed. Adapter for square-stern canoes bolts to transom.



LEEBOARDS Prevent leeway (drifting sideways) when sailing to windward. Handy lever permits leeboards to swing up to horizontal position for beaching or sailing before the wind. Two bolts clamp marine aluminum spreader bar to gunwale—permits adjustment to ideal fore-and-aft position.



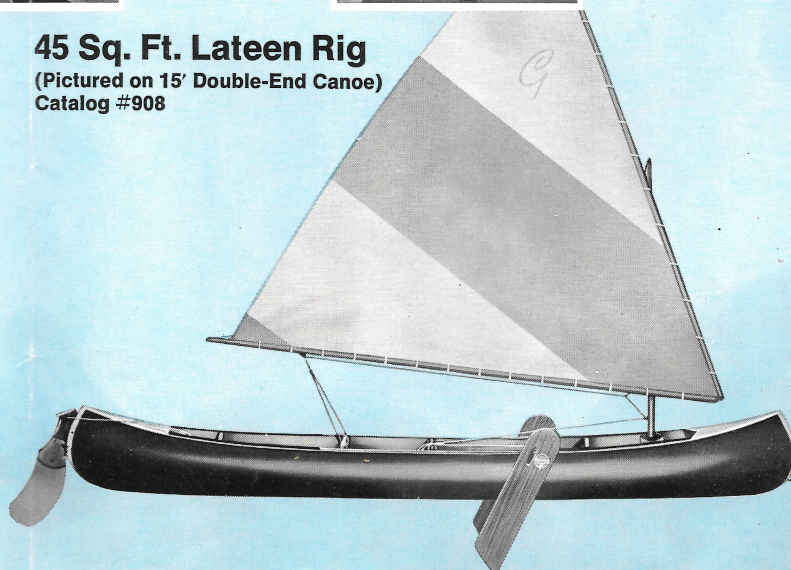
MAST STEP AND THWART Mast step bolts to clip riveted to the keelson of all Grumman Canoes. Mast thwart bolts to pre-drilled gunwales and is built to take full strain of mast. No mast stays required. Step and thwart may be left on the canoe when sail rig is removed.

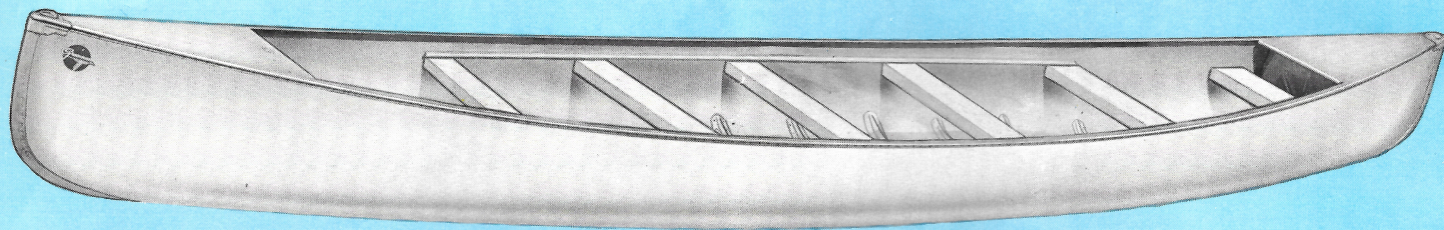


65 Sq. Ft. Gunter Rig
(Pictured on 15' Square-Stern Canoe)
Catalog #909



45 Sq. Ft. Lateen Rig
(Pictured on 15' Double-End Canoe)
Catalog #908





20 Foot War Canoe

Specially designed for camp or school group activity...ideal for team work...racing, group instruction, or rhythm paddling. Lifetime construction.

SPECIFICATIONS:

Weight	117 lbs.
Length	240"
Beam	40 1/8"
Ribs	12
Center Depth	14"
Capacity	1210 lbs.

Grumman Sportcanoe™ Exclusive 4-in-1

By far the most versatile craft per pound of weight! Season after season the Sportcanoe™ gains new enthusiasts, grows in popularity. This design combines canoe versatility with boat roominess. Its 15'3" marine aluminum, displacement-type hull features 4-in-1 versatility...can be paddled, sailed (Grumman engineered sailing accessories optional), rowed or handle motors to 5 hp. It weighs only 112 pounds, yet is so rugged it takes full active duty year after year. Standard equipment includes three seats, specially designed spray rails, bow deck, full foam flotation, outboard motor pad on stern, aluminum oarlocks, mast step clip.

SPECIFICATIONS:

Length (Overall)	15'3"
Maximum Beam	43"
Center Depth	14"
Bow Height	25"
Ribs	10
Weight	112 lbs.
BIA OBC Certified Horsepower	5
BIA OBC Capacity — Persons at 150 lbs. per person	5
or lbs. for persons, motor and gear	1100



Grumman Aluminum Boats

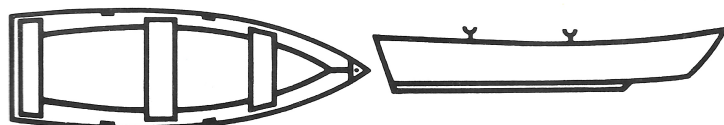
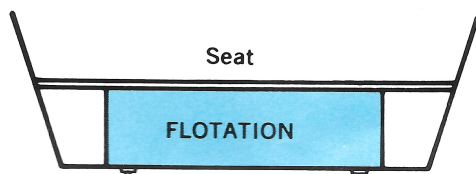
Here are the two great Grumman's for fishing and camping. Great because you actually get more boat for your money—which makes them inexpensive. Great because they're ideal for every age group—every watersport. They're the pride of the rental fleets! They're the reliables for the Boy Scouts and Girl Scouts! They're the dependables at hundreds of youth camps! They're the faithfuls for thousands of fishermen everywhere!

These boats have features you'll find ONLY in a Grumman—exclusive features that make them the "Two Great Grumman's"!

ROWBOAT America's favorite flat bottom aluminum rowboat with an approved capacity for 3 persons. Light enough to cartop anywhere—it's the fishing, hunting,

camping champ of the waters. And because it's Grumman and aluminum, it can't absorb water—become waterlogged. It needs no maintenance. Can be stored anywhere—even outdoors. You'll know a Grumman Rowboat when you see one! It's the classic skiff-type design with the flat bottom!

CAMPER Here's the "buddy boat"—Grumman's response to heavy demand from fishermen, hunters, camp and livery operators for a rowing boat that will accommodate two persons at the oars. Equipped with two sets of heavy-duty Davis-type oarlocks properly positioned for two rowers, the Camper has the same weight and capacity of the Grumman Rowboat. Camps and liveries have found the Camper the perfect boat.



ROWBOAT AND CAMPER Flotation capacity meets recommended standards. Aluminum enclosed flotation chamber extends from seat to flat bottom, providing rigidity for seat and bottom. Separate one-piece bottom is flange-fastened and close-riveted at chine. Campers and Rowboats nest for easy, off-season storage.

CAMPER Efficient bow with adequate legroom forward of bow seat. Properly positioned heavy-duty Davis-type oarlocks installed for bow and mid-ship single rowing. Stern seat placed for proper balance with campers in tandem rowing position and counsellor at stern. Exceptionally wide bottom in relation to maximum beam for greater stability and easy beaching.



SPECIFICATIONS	ROWBOAT	ROWING CAMPER
Hull Material—marine aluminum alloy	.050"	.050"
Standard Finish	Natural—all models	
Sole Finish	Non-skid Gray—all models	
Bow Gussets, aluminum casting	Hole for tie line	
Stern Gussets, aluminum casting	Gunwale-to-transom with tie line hole	
Gunwales	Heavy-duty extruded marine aluminum riveted to hull	
Keels—	Two keels of heavy-duty extruded marine aluminum alloy	
Seats—1" Philippine Mahogany	3	3
Oarlock Sockets	Cast Aluminum nylon insert	2 sets Davis-type
Flotation (BIA Standards)	Aluminum enclosed foam	
Construction—precision close-riveted. Rivets same alloy as hull. No welding.		
Length, overall	13'1"	
Depth: Bow	25"	
Center	16½"	
Maximum Beam: Gunwale	56½"	
Bottom	44¼"	
Transom Height	15"	
Transom Beam: Gunwale	49½"	
Bottom	37¼"	
Weight (Approx.)	130 lbs.	
BIA OBC Certified Horsepower	6	3
BIA OBC Capacity—Persons at 150 lbs. per person	3	3
or lbs. for persons, motor & gear	570	570

1970 Showcase of Grumman

Here are the first true one-design sailboats! Every Flyer, the Sailing Campers and Sailing Dinghies. Never before



FLYER

Now! Grumman—originators of aluminum canoes with 25 years' experience in building aluminum watercraft—starts a new era in sailing with a mass-produced, one-design sailboat for everyone. Flyer hulls weigh within pounds of each other! More thrills than a sports car—at half the price! Planing hull, self-bailing, designed by Bill Shaw. The Philippine mahogany trimmed cockpit is as roomy as a 20-footer—big enough for a family of five!

And what value! Die-formed aluminum Flyer hull has equal thickness all around. Uniform hull means uniform strength and weight—no thin spots. Water and weather cannot change or affect the hull.

SPECIFICATIONS

Standard equipment included in base price: precision die-formed aluminum hull with foamed-in-place flotation under sole; anodized aluminum spars, foam-filled; stainless steel standing rigging; Dacron™ braided running rigging; cast aluminum centerboard; kick-up rudder; hiking stick; hiking straps; transom bailers; mid-ship mainsheet traveller; mast factory-equipped for all options. Color: 2-tone blue with white boot top.

Length (Overall) 16'2"
 Beam 6'8"
 Draft: Board Up 7"
 Board Down 3'4"
 Sail Area (Main and Jib) .. 149 sq. ft.
 Max. OB Horsepower 3
 LWL 14'6"
 Weight (Approx.) 350 lbs.
 Max. Capacity 1190 lbs.
 Persons (at 150 lbs. per person) 5

Options

Cat. #942 Mainsail, Dacron™ with insignia and numbers, battens and Dacron™ jib.
 Cat. #943 Spinnaker, nylon.
 Cat. #947 Spinnaker gear—transom fair-leads, cleats, halyard spinnaker pole, topping lift, sheet and guy.
 Cat. #945 Trapeze belt with hook, stainless steel cables.
 Cat. #944 Boom vang.
 Cat. #949 Lifting bridle.
 Cat. #948 Motor pad.



Grumman Aluminum Sailboats

Hull is within pounds of each other. The same is true of such precision manufacturing in sailboat construction!

SAILING CAMPER

Another Grumman exclusive—the first and only aluminum sailing rowboat. What an idea! A sailboat you can row! A rowboat you can sail! A boat you can cartop anywhere. It's the only one of its kind on the market.

Equipped with double Davis-type oarlocks to accommodate two at the oars—complete with aluminum mast, boom, standing and running rigging, Dacron™ sail, Philippine mahogany daggerboard and aluminum kick-up rudder. And Grumman includes the mainsail. Jib kit option available.

It's the only boat a family needs for diversified watercraft fun—the only boat a camp needs for a complete watercraft program. Be sure to specify GRUMMAN SAILING CAMPER to get this model.

SPECIFICATIONS

Hull material is .050" marine aluminum; sole is non-skid gray; bow gussets are cast aluminum with hole for tow or tie line; stern gussets are cast aluminum—gunwale-to-transom with tie line openings; heavy-duty marine aluminum extruded gunwales; two heavy-duty marine aluminum extruded keels, full length, riveted to bottom; three seats, 1" Philippine mahogany; two sets Davis-type oarlocks; aluminum enclosed foam flotation chambers as recommended by Boating Industry Association. Color: Light blue.

Length (Overall) 13'1"
Depth: Bow 25"
Center 16½"
Stern 15½"
Draft: Board Up 3"
Board Down 28"
Weight (Approx.) 130 lbs.
Max. Beam: Gunwale 56½"
Bottom 44½"
Transom Beam: Gunwale 49½"
Bottom 37¼"

Sail Areas: Main Sail 66 sq. ft.
Capacity: Passengers 3

or
lbs. for persons and gear . 570

Option

Cat. #954 Jib Sail Kit 31 sq. ft.



DINGHIES

Look around you! The knowledgeable have Grumman Aluminum Dinghies! They say more about boat owners than the size of their yachts. That's why you see Grumman Dinghies on the davits and decks of the most luxurious yachts afloat! And it's all Grumman—from bow to stern—precision-built in die-formed marine aluminum alloy from designs by Phil Rhodes. The rowing model is 83 pounds of floating efficiency—BIA rated capacity five times the weight of the craft in persons, supplies and gear! Two great models to choose from—Grumman Rowing Dinghy and Grumman Sailing Dinghy—ideal as in-port sailers, first sailers for youngsters, yacht tenders, one-man fishing boat, etc. Get a Grumman Dinghy!

SPECIFICATIONS

Die-formed marine aluminum hull; aluminum oarlocks; fender rails; OB motor pad; aluminum enclosed foam-filled flotation chambers; standard finish—yacht white outside, blue inside. Equipment included—recessed tow eye; lifting bails fore and aft; varnished marine plywood floorboards; hardwood oars (7'6"); replaceable skeg rub strips on hull bottom.

ROWING MODEL

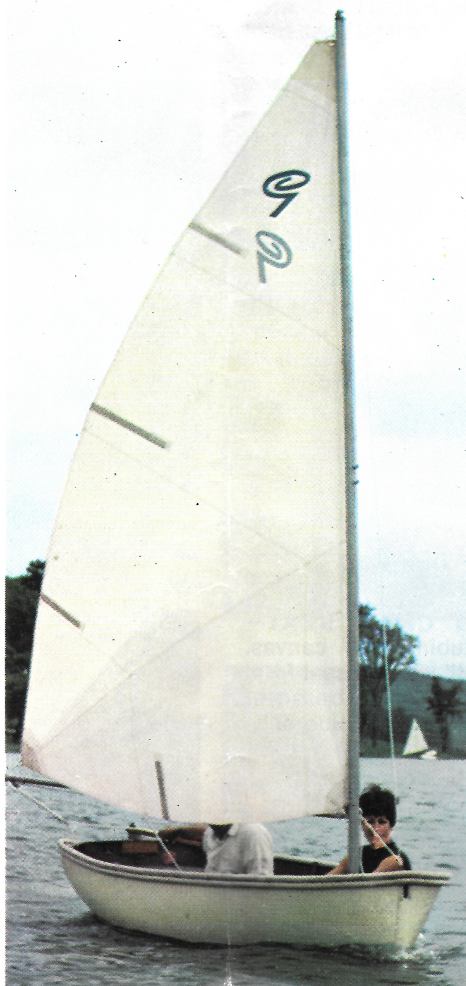
Length (Overall) 8'6"
Beam—transom 36½"
Draft—Board Up 6"
Board Down 30"
Max. Beam (over fenders) . . 50"
Capacity: persons and gear 400 lbs.
Depth: Bow 20"
Center 19"
Stern 15"
Weight (Approx.) 83 lbs.
Max. OB hp. (Recom.) 4

SAILING MODEL

Measurements are identical to the Rowing Model listed above, plus: daggerboard trunk with seal; daggerboard; rudder; tiller; complete lines and rigging. Loose foot, cat rig Dacron™ sail 50 sq. ft.; internal sail groove jointed aluminum mast. All spars fit in the boat. Weight of sailing model complete—124 lbs.

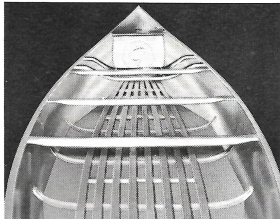
Sailing Model Options

Cat. #976 Drain Plug for self installation.
Cat. #975 Aluminum universal davit bar.

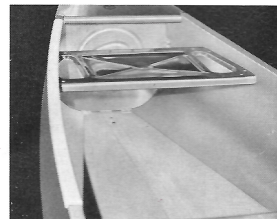


Famous Grumman Accessories

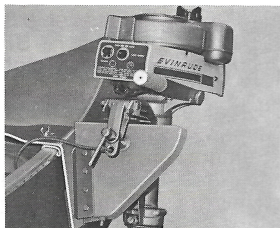
Grumman engineered canoe accessories help you enjoy your Grumman Canoe in more ways, more often. Designed to fit your Grumman, these accessories are built of the finest materials for long, dependable use. All accessories are complete, with all necessary fittings. No special tools needed. Check catalog number on price list for each individual item. See them on display at your Grumman Dealer.



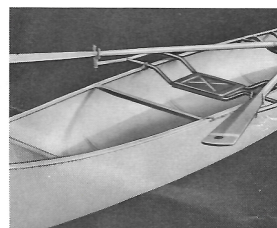
GRUMMAN FLOORBOARDS—Flexible, varnished, wood-slat floorboards keep your feet and gear dry. Fit into all canoes 13' to 18'. Specify length. Catalog #906



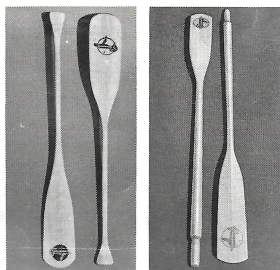
GRUMMAN VINYL GUNWALE COVERS—Sleek, white vinyl guards snap firmly onto gunwale. Provide a "cushion" that eliminates abrasions on paddles. Specify canoe size. Catalog #923—full cover. Catalog #907—four 38" lengths.



OUTBOARD MOTOR BRACKET—Clamps onto gunwales quickly, easily. No structural changes necessary. Motor clamps onto OB pad at port side of canoe. Adjustable to fit all double-end models. Catalog #902



GRUMMAN ROWING ATTACHMENT—More versatility for your canoe! Adds speed and power to long trips. Clamps quickly and easily to gunwales. Great for single-handed fisherman. Catalog #901



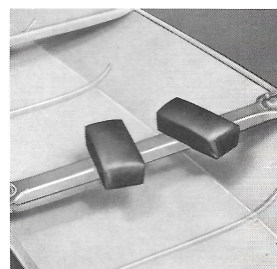
GRUMMAN PADDLES AND OARS—Finest paddles and oars on the market. No. 1 hardwood. Flexible blades—scientific hand grip. Specify length desired. Paddles: 4'6", 5', 5'6", 6' Oars: 7', 7'6", 8', 9' Paddles, Catalog #920 6' Paddle, Catalog #921 Oars, Catalog #922



GRUMMAN PONTOONS—New! 5' long foam pontoons become outriggers for your canoe. Clamp on in minutes—provide extra stability. Particularly helpful with side bracket outboard. Catalog #939



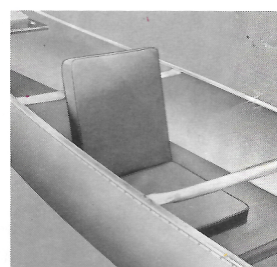
GRUMMAN CANOE SEAT CUSHION—Foam filled and encased in durable vinyl. Straps to canoe seat. Catalog #904



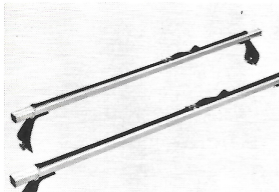
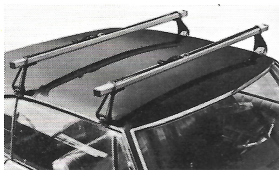
GRUMMAN CARRYING YOKE—Clamps to gunwales over center thwart. Two cushioned pads, scientifically spaced and positioned to rest easily on shoulders, make portaging light and comfortable. Catalog #905



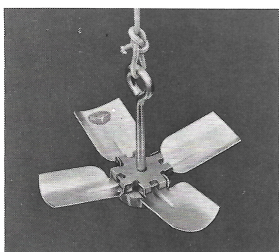
GRUMMAN CREW SEAT—Aluminum tubing and canvas. Rubber "feet" prevent seat from sliding, protect canoe sole. Light, comfortable. In blue only. Catalog #903



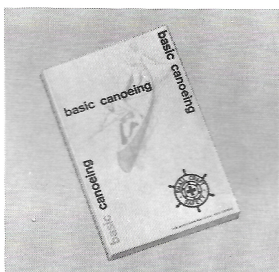
GRUMMAN LAZYBACK—Most comfortable support for your canoe passenger. Seat rests on canoe sole. Rigid supported back rests against thwart. Completely encased in green vinyl. Catalog #934



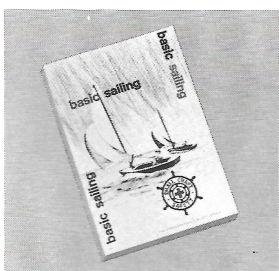
GRUMMAN CARTOP CARRIER—At last, the perfect carrier specially designed to cartop a canoe, boat or Sportcanoe. Fits all cars with rain gutters—attaches in minutes. Rigid steel bars support canoe or boat. Triple strength, self-tightening straps hold it firmly in place. Catalog #940
Extension Kit extends carrier to 76" wide—can carry two canoes. Catalog #946



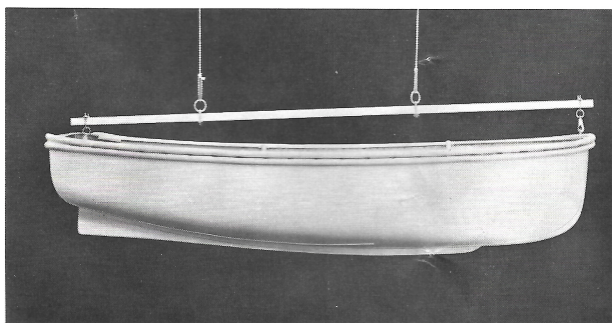
FOLDING ANCHOR—Four-fluke, galvanized, 3-pound anchor for canoes and small boats. Turn bottom to open and close flukes. Will hold on most bottoms. Catalog #972



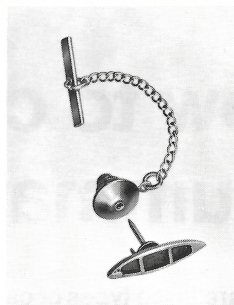
BASIC CANOEING—The official Red Cross book that covers vital subjects as paddling techniques, safety, care, weight distribution, boarding, debarking, etc. No canoeer should be without it! Catalog #875



BASIC SAILING—The Official Red Cross book for the beginner. Covers sailboat types, hull characteristics, sails and rigging, safety, rules of the road, etc. Catalog #876



UNIVERSAL DAVIT BAR—Snaps onto lifting bails. Lifting rings adjustable to davit spacing. A Grumman exclusive accessory! Catalog #975



GRUMMAN CANOE CHARMS—For him—Canoe Tie Tack—sterling silver replica of your standard canoe. Identifies you as an outdoor sportsman. Catalog #892-A

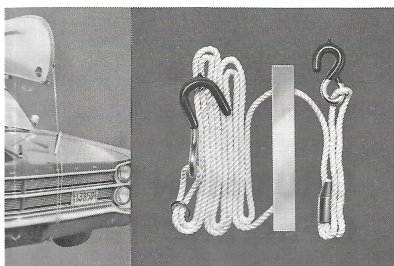
For her—Canoe Charm on Chain—sterling silver. Smart beginning for a charm collection. They make excellent race prizes. Catalog #892-B



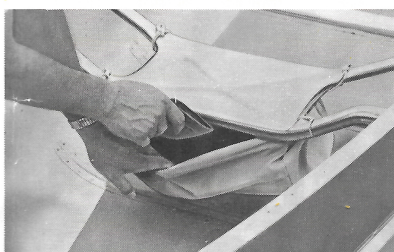
Touch-up "SPRAYON" Paint—In aerosol cans, ready for use. All standard Grumman canoe colors—red, green, blue, yellow, silver trim, gray (inside), Deadgrass. Also in Combo Blue and Flyer Blue. Specify color when ordering. Catalog #953



GRUMMAN TROPHIES—Beautiful silvery finish trophies for 1st, 2nd and 3rd place winners. For camps, clubs and area championship races. 1st Pl. Trophy, Catalog #877
2nd Pl. Trophy, Catalog #878
3rd Pl. Trophy, Catalog #879



TY-DOWNS—Coated hooks on strong nylon cord with aluminum slide. Holds car-topping canoes and boats securely in place. Coated hooks prevent abrasion to car and boat. Catalog #974



UNDERSEAT GEAR BAG—10.3 oz. pearl gray canvas with elastic cord sewn in top hem. Ideal for keeping wallet, watch, rings, credit cards securely out of the way. Ties to seat supports. Catalog #973

How to choose the Grumman Canoe best for you

There are three types of canoes. The "double-end" canoe is the one you'll recognize as the American Indian type canoe. The bow and the stern are identical in shape. The "square-stern" has the regular canoe bow but the stern is squared off to accommodate a small outboard motor. The "Sportcanoe™" is an exclusive Grumman design of the square-stern type. It's the family type canoe pictured on Page 6. Only Grumman builds all three types.

All Grumman Canoes are made of marine aluminum—which means lightweight and no maintenance. In addition, the square-sterns have spray rails (this includes the Sportcanoe™) to help keep the inside dry when powered by an outboard motor. All are efficient in the water and have maximum carrying capacity for watercraft of this type.

The various Grummans are defined by length and shape. The length determines the beam (width) to keep ideal canoe proportions. The length and the beam together determine the load capacity. These are the criteria you should use in selecting the Grumman best for you. You will have to answer these questions:

- (a) What kind of water is available for your kind of canoeing? Is it a smooth mill pond, rough lake or "white water" (fast running river over rocky bottoms creating rapids)?
- (b) Do you go canoe camping? This may entail portaging your canoe (carrying the craft on your shoulders).

These questions will determine whether you will need a standard weight or a lightweight canoe model; whether you will need a standard keel or a shoe keel (special keel for shooting the rapids).

- (c) How big a load will your Grumman be required to carry? Recently, the Boating Industry Association set standards of safe carrying capacity. To estimate the load, average the passenger weights at 150 pounds per adult or child. Judge the weight of the gear you will be taking along (fishing equipment, hunting equipment, cooking utensils, tents, sleeping bags, food, duffle, etc.). Know the weight of your outboard motor if you intend to use one. Add the total weight. This is the load you will want your canoe to carry. Never overload any watercraft!
- (d) Do you expect to use a motor more often than paddle? Then you will certainly want to consider a Grumman Square-Stern.

With these factors, check the canoe charts on Page 4 along with the Sportcanoe™ information on Page 6. You will find the Grumman that best suits your purpose.

To be doubly sure, check this information with your Grumman Dealer when placing your order. He is an expert and will help you make the proper decision. In normal use on water, your Grumman Canoe will give you years and years of faithful, happy service.

READ THE LIFETIME GUARANTEE

100M 8/69 Printed in U.S.A. Specifications and standard equipment subject to change without notice.

GRUMMAN BOATS, Grumman Allied Industries, Inc.
General Sales Office, Marathon, New York 13803

